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RECENTLY PUBLISHED RESEARCH OF THE L'VOV POLYTECHNICAL INSTITUTE

"Thermodynamic Properties of Solutions of Strong Electrolytes in Formamide: I. Activity Coefficients of Lithium Chloride and Sodium Chloride in Formamide," E. N. Vasenko, L'vov Polytech Inst

"Zhur Fiz Khimii" Vol 21, 1947, pp 361-4

Melting points of formamide solutions of NaCl and LiCl are determined between 0.02 and 0.8 molecules per 1 kg formamide. Assuming the cryoscopic constant of formamide to be 3.166, the activity coefficients are, e.g., 0.942, 0.929, 1.009, and 1.107 for 0.02, 0.1, 0.5, and 0.8 mol/kg of LiCl; and 0.936, 0.909, 0.924, and 0.967 for NaCl. The dependence of the activity coefficient on concentration is similar to that in H_2O. The dielectric constant of formamide, determined by Burdun (thesis, Kharkov) is 126.07 - 0.7206 t between 18° and 25°; t is temperature.

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